

2/28



OIPE

# 2

## RAW SEQUENCE LISTING

DATE: 02/28/2002

PATENT APPLICATION: US/10/072,438

TIME: 10:29:12

Input Set : N:\Crif3\RULE60\10072438.raw.txt

Output Set: N:\CRF3\02282002\J072438.raw

1 <110> APPLICANT: della-Cioppa, Guy  
 2 Erwin, Robert L.  
 3 Fitzmaurice, Wayne P.  
 4 Hanley, Kathleen M.  
 5 Kumagai, Monto H.  
 6 Lindbo, John A.  
 7 McGee, David R.  
 8 Padgett, Hal S.  
 9 Pogue, Gregory P.  
 10 <120> TITLE OF INVENTION: METHOD OF DETERMINING THE FUNCTION OF  
 11 NUCLEOTIDE SEQUENCES AND THE PROTEINS THEY ENCODE BY  
 12 TRANSFECTING THE SAME INTO A HOST  
 13 <130> FILE REFERENCE: 08010137US01  
 15 <140> CURRENT APPLICATION NUMBER: 10/072,438  
 16 <141> CURRENT FILING DATE: 2002-02-05  
 18 <150> PRIOR APPLICATION NUMBER: US/09/232,170  
 19 <151> PRIOR FILING DATE: 1999-01-15  
 23 <160> NUMBER OF SEQ ID NOS: 49  
 24 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 26  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: viral  
 30 <400> SEQUENCE: 1  
 31 ctcgcaaagt ttcgaaccaa atcctc  
 33 <210> SEQ ID NO: 2  
 34 <211> LENGTH: 35  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: VIRAL  
 37 <400> SEQUENCE: 2  
 38 cgggggtacct gggccccaac cggggggttcc ggggg  
 40 <210> SEQ ID NO: 3  
 41 <211> LENGTH: 41  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: VIRAL  
 44 <400> SEQUENCE: 3  
 45 tcctcgagcc taggctcgca aagtttcgaa ccaaatactc a  
 47 <210> SEQ ID NO: 4  
 48 <211> LENGTH: 35  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: VIRAL  
 51 <400> SEQUENCE: 4  
 52 cgggggtacct gggccccaac cggggggttcc ggggg

ENTERED

26

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41

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Input Set : N:\Crf3\RULE60\10072438.raw.txt

Output Set: N:\CRF3\02282002\J072438.raw

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54 <210> SEQ ID NO: 5
55 <211> LENGTH: 24
56 <212> TYPE: DNA
57 <213> ORGANISM: VIRAL
58 <400> SEQUENCE: 5
59     tatgtatggt gcagaagaac agat                24
61 <210> SEQ ID NO: 6
62 <211> LENGTH: 25
63 <212> TYPE: DNA
64 <213> ORGANISM: VIRAL
65 <400> SEQUENCE: 6
66     agtcgactct tcctcttctg gcatc                25
68 <210> SEQ ID NO: 7
69 <211> LENGTH: 30
70 <212> TYPE: DNA
71 <213> ORGANISM: VIRAL
72 <400> SEQUENCE: 7
73     tgctcgagtg tgttcttcag ttttctgtca            30
75 <210> SEQ ID NO: 8
76 <211> LENGTH: 30
77 <212> TYPE: DNA
78 <213> ORGANISM: VIRAL
79 <400> SEQUENCE: 8
80     aactcgagcg ctttgatttc tccgaagctt            30
82 <210> SEQ ID NO: 9
83 <211> LENGTH: 39
84 <212> TYPE: DNA
85 <213> ORGANISM: VIRAL
86 <400> SEQUENCE: 9
87     gcctcgagtg cagcatggaa accctttctaa agctttttcc 39
89 <210> SEQ ID NO: 10
90 <211> LENGTH: 36
91 <212> TYPE: DNA
92 <213> ORGANISM: VIRAL
93 <400> SEQUENCE: 10
94     tccctaggctc aaaggctctc tattgctaga ttgccc            36
96 <210> SEQ ID NO: 11
97 <211> LENGTH: 44
98 <212> TYPE: DNA
99 <213> ORGANISM: VIRAL
100 <400> SEQUENCE: 11
101     ccaagcttct cgagtgcagc atgcagcaac cgccgctgct tgac            44
103 <210> SEQ ID NO: 12
104 <211> LENGTH: 43
105 <212> TYPE: DNA
106 <213> ORGANISM: VIRAL
107 <400> SEQUENCE: 12
108     aagatctctc gagctaaacg ggacgctgcc aaagaccggc cgg            43
110 <210> SEQ ID NO: 13

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Input Set : N:\Crif3\RULE60\10072438.raw.txt

Output Set: N:\CRF3\02282002\J072438.raw

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111 <211> LENGTH: 26
112 <212> TYPE: DNA
113 <213> ORGANISM: VIRAL
114 <400> SEQUENCE: 13
115      ggctgtgaaa ctcgaaaagg ttccgg                26
117 <210> SEQ ID NO: 14
118 <211> LENGTH: 36
119 <212> TYPE: DNA
120 <213> ORGANISM: VIRAL
121 <400> SEQUENCE: 14
122      cgggggtacct gggccgctac cggcgggttag gggagg                36
124 <210> SEQ ID NO: 15
125 <211> LENGTH: 32
126 <212> TYPE: DNA
127 <213> ORGANISM: VIRAL
128 <400> SEQUENCE: 15
129      gacagaagct ttgcagcatg caaaaaaccg tt                32
131 <210> SEQ ID NO: 16
132 <211> LENGTH: 31
133 <212> TYPE: DNA
134 <213> ORGANISM: VIRAL
135 <400> SEQUENCE: 16
136      cgcggtcatt gcagatcctc aatcatcagg c                31
138 <210> SEQ ID NO: 17
139 <211> LENGTH: 25
140 <212> TYPE: DNA
141 <213> ORGANISM: VIRAL
142 <400> SEQUENCE: 17
143      ttgcactctg ttggctcatg acgat                25
145 <210> SEQ ID NO: 18
146 <211> LENGTH: 26
147 <212> TYPE: DNA
148 <213> ORGANISM: VIRAL
149 <400> SEQUENCE: 18
150      caagcttgca caaacgaacg tctcac                26
152 <210> SEQ ID NO: 19
153 <211> LENGTH: 42
154 <212> TYPE: DNA
155 <213> ORGANISM: VIRAL
156 <400> SEQUENCE: 19
157      cactcgagag catggctatt cccgaagaat ttgatattat cg                42
159 <210> SEQ ID NO: 20
160 <211> LENGTH: 36
161 <212> TYPE: DNA
162 <213> ORGANISM: VIRAL
163 <400> SEQUENCE: 20
164      tccctagggtt agaatctagc aagaccgggc ttctcg                36
166 <210> SEQ ID NO: 21
167 <211> LENGTH: 38

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Input Set : N:\Crif3\RULE60\10072438.raw.txt

Output Set: N:\CRF3\02282002\J072438.raw

```

168 <212> TYPE: DNA
169 <213> ORGANISM: VIRAL
170 <400> SEQUENCE: 21
171      ctctcgagat caatcatcca tctccgaagt gtgtctgc      38
173 <210> SEQ ID NO: 22
174 <211> LENGTH: 34
175 <212> TYPE: DNA
176 <213> ORGANISM: VIRAL
177 <400> SEQUENCE: 22
178      tccctagggtc agattttctc ccagattgcg tagc      34
180 <210> SEQ ID NO: 23
181 <211> LENGTH: 42
182 <212> TYPE: DNA
183 <213> ORGANISM: VIRAL
184 <400> SEQUENCE: 23
185      gcctcgagtgc cagcatgatc agattcttag tcctctcttt gc      42
187 <210> SEQ ID NO: 24
188 <211> LENGTH: 36
189 <212> TYPE: DNA
190 <213> ORGANISM: VIRAL
191 <400> SEQUENCE: 24
192      tccctagggt aaatagcata acttccacat caaagc      36
194 <210> SEQ ID NO: 25
195 <211> LENGTH: 38
196 <212> TYPE: DNA
197 <213> ORGANISM: VIRAL
198 <400> SEQUENCE: 25
199      cactcgagag catgctgcac ctgactcctg aggagaag      38
201 <210> SEQ ID NO: 26
202 <211> LENGTH: 38
203 <212> TYPE: DNA
204 <213> ORGANISM: VIRAL
205 <400> SEQUENCE: 26
206      cgtctagatt agtgatactt gtgggccagc gcattagc      38
208 <210> SEQ ID NO: 27
209 <211> LENGTH: 26
210 <212> TYPE: DNA
211 <213> ORGANISM: VIRAL
212 <400> SEQUENCE: 27
213      ggctgtgaaa ctcgaaaagg ttccgg      26
215 <210> SEQ ID NO: 28
216 <211> LENGTH: 36
217 <212> TYPE: DNA
218 <213> ORGANISM: VIRAL
219 <400> SEQUENCE: 28
220      cggggtacct gggccgctac cggcggttag gggagg      36
222 <210> SEQ ID NO: 29
223 <211> LENGTH: 31
224 <212> TYPE: DNA

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,438

DATE: 02/28/2002

TIME: 10:29:12

Input Set : N:\Crf3\RULE60\10072438.raw.txt

Output Set: N:\CRF3\02282002\J072438.raw

```

225 <213> ORGANISM: VIRAL
226 <400> SEQUENCE: 29
227      tactcgaggt tcataagacc gcggtaggcg g                                     31
229 <210> SEQ ID NO: 30
230 <211> LENGTH: 36
231 <212> TYPE: DNA
232 <213> ORGANISM: VIRAL
233 <400> SEQUENCE: 30
234      cggggtacct gggcccoctac ccgggggttta gggagg                                     36
236 <210> SEQ ID NO: 31
237 <211> LENGTH: 1536
238 <212> TYPE: DNA
239 <213> ORGANISM: VIRAL
240 <400> SEQUENCE: 31
241      ctcgagggttc ataagaccgc ggtaggcgga gcgtttgttt actgtagtat aattaaatat      60
242      ttgtcagata aaagggttgtt taaagatttg tttttgtttt gactcgataa tgtcttacga      120
243      gcctaaagtt agtgacttcc ttgctcttac gaaaaaggag gaaattttac ccaaggcttt      180
244      gacgagatta aagactgtct ctattagtag taaggatgtt atatctgtta aggagtctga      240
245      gtccctgtgt gatattgatt tgttagtgaa tgtgccatta gataagtata ggtatgtggg      300
246      tgttttgggt gttgttttca ccggtgaatg gctggtaccg gattgttaaa ggtggggtaa      360
247      cagtgaagct gattgacaaa cggcttgaaa attccagaga gtgcataatt ggtacgtacc      420
248      gagctgctgt aaaggacaga aggttccagt tcaagctggg tccaaattac ttcgtatcca      480
249      ttgcggtatgc caagcgaaaa ccgtggcagg ttcatgtgcg aatcaaaatc tgaagatcga      540
250      agctggatgg caacctctag ctctagaggt ggtttctgtt gccatgggta ctaataacgt      600
251      ggttggttaa ggtttgaggg aaaaggatcat cgcagtgaat gtccgaacgt cgaagggttc      660
252      gaagggtgtg ttgacgattt cgtcgattcg gttgctgcat tcaaggcgat tgacagtttc      720
253      cgaaagaaaa aagaaaaaga ttggagggaag ggatgtaaat aataataagt atagatatag      780
254      accggagaga tacgccgggtc ctgattcgtt acaatataaa gaaaaaatg gtttacaaca      840
255      tcacgagctc gaatcagtag cagtatttcg cagcgatgtg ggcagagccc acagcgatgc      900
256      ttaaccagtg cgtgtctgcg ttgtcgcaat cgtatcaaac tcaggcggca agagatactg      960
257      ttagacagca gttctctaac cttctgagtg cgattgtgac accgaaccag cggtttccag      1020
258      aaacaggata ccgggtgtat attaattcag cagttctaaa accgttgtac gagtctctca      1080
259      tgaagtcctt tgatactaga aataggatca ttgaaactga agaagagtcg cgtccatcgg      1140
260      cttccgaagt atctaataga acacaacgtg ttgatgatgc gaccgtcggc catcaggagt      1200
261      caaattcagc ttttgctgaa cgagctctcc aacggacatg gtctgatcga acagggcaga      1260
262      gttcgagggt ttattacctt gggctactgc gccagctaca taggcgtggg gcacacgata      1320
263      gtgcatagtg tttttctctc caactaaatc gaagagatat acttacgggt taattccgca      1380
264      aggggtggcg aaaccaaatt acgcaatgtt ttaggttcca tttaaatcga aacctgttat      1440
265      ttcctggatc acctgttaac gtacgcgtgg cgtatattac agtgggaata actaaaagtg      1500
266      agagttcgaa tcctcctaac ccgggtagg ggccca                                     1536
268 <210> SEQ ID NO: 32
269 <211> LENGTH: 55
270 <212> TYPE: DNA
271 <213> ORGANISM: VIRAL
272 <400> SEQUENCE: 32
273      gatgggcct taatacgacg cactatagtt ttatttttgt tgcaacaaca acaac      55
275 <210> SEQ ID NO: 33
276 <211> LENGTH: 30
277 <212> TYPE: DNA

```

## VERIFICATION SUMMARY

DATE: 02/28/2002

PATENT APPLICATION: US/10/072,438

TIME: 10:29:13

Input Set : N:\Crf3\RULE60\10072438.raw.txt

Output Set: N:\CRF3\02282002\J072438.raw

369 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:43, CDS LOCATION: (1)...  
1992)  
373 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
376 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
379 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
382 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
385 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
388 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
391 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
394 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
397 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
400 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
403 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
406 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
409 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
412 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
415 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43  
418 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43